Workspace and Import

English units

Mass entered in lbm, converted to consistent units: $m = W/386$ [lbf sec^2/in]

Stiffness k [lbf/in], length [in], force [lbf], acceleration [in/sec^2]

$1\,G = 386$ in/sec^2

Metric units

Mass m [kg], stiffness k [N/m], length [m], force [N]

$1\,G = 9.81$ m/sec^2

Import conventions

Text / Excel file → one array (readmatrix) named after the file

.mat file → every variable it holds; matrices are used on the Model tab

Workspace mass matrices in English units: lbm (divide by 386) or lbf sec^2/in